

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	610897	data near5 input\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L2	10470	(data near5 input\$4) and "707"/.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L3	249	(data near5 input\$4 or stor\$4) same (identif\$5 near5 term\$1) and confidenc\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L4	1287	(data near5 input\$4) near10 voice\$1 and ("707"/.ccls. or "704"/.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L5	192	(data near5 input\$4) same (identif\$5 near5 term\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L6	44	((voice near3 input\$4) same (recognition)) same (confidenc\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L7	1287	(data near5 input\$4) near10 voice\$1 and ("707"/.ccls. or "704"/.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
L8	5421	incorrect\$4 near4 (input\$4 typ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:55
L9	283	L8 and automatic\$4 near5 correct\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:55

L10	6988	(speech\$4 spoken\$4 voic\$4 speak\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:55
L11	6988	(speech\$4 spoken\$4 voic\$4 speak\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L12	7	L11 and (histor\$4 near5 stor\$4) same confiden\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L13	416	((recogniz\$3 identif\$3) near5 input\$3) and ((identif\$4 determin\$3 select\$3) near5 candidat\$4 near4 word\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L14	6988	(speech\$4 spoken\$4 voic\$4 speak\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L15	48	((ratio\$1 probabilit\$3) same total same period\$1) same (record\$3 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L16	6887	(speech\$4 spoken\$4 voic\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L17	42	L16 and ((comapr\$4 combin\$4) near5 (register\$4 sav\$4 stor\$4 use\$3) near5 (term\$3 word\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
L18	227	(((data near5 input\$4) near10 voice\$1 and ("707"/.ccls. or "704"/.ccls.)) and term\$1) and (probabil\$5 or confiden\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:56
L19	6988	(speech\$4 spoken\$4 voic\$4 speak\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:57

L20	36	(US-4599692-\$ or US-5023912-\$ or US-5231670-\$ or US-5365574-\$ or US-5454063-\$ or US-5499288-\$ or US-5537488-\$ or US-5625833-\$ or US-5638425-\$ or US-5642368-\$ or US-5649153-\$ or US-5680636-\$ or US-5692097-\$ or US-5710866-\$ or US-5745649-\$ or US-5751904-\$ or US-5802205-\$ or US-5835635-\$ or US-5842163-\$ or US-5842168-\$ or US-5852801-\$ or US-5884261-\$ or US-5899972-\$ or US-5917891-\$ or US-5946658-\$ or US-5950157-\$).did. or (US-5960388-\$ or US-6070139-\$ or US-6138092-\$ or US-6144938-\$ or US-6161083-\$ or US-6208971-\$ or US-6233560-\$ or US-6377949-\$ or US-5794204-\$ or US-6480819-\$).did.	USPAT	OR	ON	2005/11/22 14:57
L21	404	(speech\$4 spoken\$4 voic\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4) near5 (valu\$4 number\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:57
L22	7	L21 and (pre\$4 near5 (stor\$4 sav\$4) near5 use\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:57
S1	398257	data near5 input\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
S2	5588	(data near5 input\$4) and "707"/.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
S3	1618	(data near5 input\$4) and (identif\$5 near5 term\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/11 14:26
S4	86	(data near5 input\$4) same (identif\$5 near5 term\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55

S5	3	(data near5 input\$4) same (identif\$5 near5 term\$1) and confidenc\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/17 13:49
S6	51	(data near5 input\$4 or stor\$4) same (identif\$5 near5 term\$1) and confidenc\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
S7	19611	voice near3 input\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/17 14:04
S8	4350	(voice near3 input\$4) same (recognition)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/17 14:05
S9	26	((voice near3 input\$4) same (recognition)) same (confidenc\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
S10	400089	data near5 input\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 09:17
S11	8996	(data near5 input\$4) same voice\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 09:18
S12	5361	(data near5 input\$4) near10 voice\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 09:19
S13	751	(data near5 input\$4) near10 voice\$1 and ("707"/.ccls. or "704"/.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:55
S14	329	((data near5 input\$4) near10 voice\$1 and ("707"/.ccls. or "704"/.ccls.)) and term\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 09:21

S15	105	((data near5 input\$4) near10 voice\$1 and ("707"/.ccls. or "704"/.ccls.) and term\$1) and (probabil\$5 or confiden\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/22 14:56
S16	821	704/240-243.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 13:05
S17	2783	704/230-243.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 13:05
S18	1245	704/270-273.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/24 13:05
S19	64558	image near2 input	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/25 15:12
S20	39005	image adj2 input	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/25 15:13
S21	140	(image adj2 input) near2 recognition	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/25 15:14
S22	5	((image adj2 input) near2 recognition) near2 stor\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/06/25 15:15
S23	16589	(speech\$4 or speak\$4) near3 (input\$4 or recogni\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/10 13:26
S24	0	((speech\$4 or speak\$4) near3 (input\$4 or recogni\$4)) and (probabil\$5 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/10 13:28

S25	573	((speech\$4 or speak\$4) near3 (input\$4 or recongni\$4) and (probabilit\$5 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/10 13:29
S26	145	(((speech\$4 or speak\$4) near3 (input\$4 or recongni\$4) and (probabilit\$5 near5 use\$3)) and ((overall or combin\$4 or total) near5 probabilit\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/10 13:30
S27	26	(((speech\$4 or speak\$4) near3 (input\$4 or recongni\$4) and (probabilit\$5 near5 use\$3)) and ((overall or combin\$4 or total) near5 probabilit\$4)) and confidenc\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/10 13:30
S28	42847	(recogniz\$3 identif\$3) near5 input\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 14:16
S29	275	((recogniz\$3 identif\$3) near5 input\$3) and ((identif\$4 determin\$3 select\$3) near5 candidat\$4 near4 word\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
S30	16	(((recogniz\$3 identif\$3) near5 input\$3) and ((identif\$4 determin\$3 select\$3) near5 candidat\$4 near4 word\$3)) and (probabilit\$3 confidenc\$3) near5 ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 14:48
S31	16	(((recogniz\$3 identif\$3) near5 input\$3) and ((identif\$4 determin\$3 select\$3) near5 candidat\$4 near4 word\$3)) and ((probabilit\$3 confidenc\$3) near5 ratio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 14:45
S32	1730	((recogniz\$3 identif\$3) near5 input\$3) and ((candidat\$4 match\$4) near4 word\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 14:47
S33	40	(((recogniz\$3 identif\$3) near5 input\$3) and ((candidat\$4 match\$4) near4 word\$3)) and (probabilit\$3 confidenc\$3) near5 ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 15:06

S34	62025	(voice\$3 speech\$3) near5 (input\$3 recogni\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 15:32
S35	137	((voice\$3 speech\$3) near5 (input\$3 recogni\$5)) and (identif\$4 near5 confiden\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 15:41
S36	6	(((voice\$3 speech\$3) near5 (input\$3 recogni\$5)) and (identif\$4 near5 confiden\$4)) and (candidat\$4 near5 word\$3 near10 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/18 15:42
S37	9674	(ratio\$1 probabilit\$3) same total same period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/25 16:02
S38	555	((ratio\$1 probabilit\$3) same total same period\$1) and (record\$3 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/25 16:03
S39	34	((ratio\$1 probabilit\$3) same total same period\$1) same (record\$3 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
S40	1698	(ratio\$1 probabilit\$3) same (period\$1 time\$1) same (record\$3 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:18
S41	9580	(ratio\$1 probabilit\$3) same (period\$1 time\$1) same ((record\$3 data number\$1) near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:03
S42	401	(ratio\$1 probabilit\$3) near5 (period\$1 time\$1) near5 ((record\$3 data number\$1) near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:07
S43	86	(ratio\$1 probabilit\$3) near7 (period\$1 time\$1) near7 (record\$3 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:12

S44	16934	rat\$3 near7 frequen\$3 near7 (period\$1 time\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:16
S45	5188	ratio\$3 near7 frequen\$3 near7 (period\$1 time\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:17
S46	3496	ratio\$3 near5 frequen\$3 near5 (period\$1 time\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:18
S47	130	(ratio\$3 near5 frequen\$3 near5 (period\$1 time\$1)) same (base\$3 near5 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:31
S48	16736	weight\$1 near3 factor\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:32
S49	0	(weight\$1 near3 factor\$1) same ((total near5 number\$1) near5 time near5 ratio\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:35
S50	0	(weight\$1 near3 factor\$1) same ((total near5 number\$1) near7 time near7 ratio\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:40
S51	2	(weight\$1 near3 factor\$1) same ((total near5 number\$1) same time same ratio\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 09:40
S52	925	(ratio\$1 probabilit\$3) near5 (record\$3 near5 use\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:22
S53	748	((ratio\$1 probabilit\$3) near5 (record\$3 near5 use\$3)) and (number time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:24

S54	224	((ratio\$1 probabilit\$3) near5 (record\$3 near5 use\$3)) same (number time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:46
S55	781	cache near5 hit near3 ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:47
S56	1	(cache near5 hit near3 ratio) same time near5 probability	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:48
S57	17	(cache near5 hit near3 ratio) same (time same probability)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/26 10:48
S58	22328	speech\$4 near5 recogni\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 11:06
S59	41046	(speech\$4 voic\$3) near5 recogni\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 11:06
S60	669	((speech\$4 voic\$3) near5 recogni\$5) same ((term\$4 word\$4) near5 (probabilit\$4 confidn\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:24
S61	1	(((speech\$4 voic\$3) near5 recogni\$5) same ((overall totoal combin\$4 joint\$4) near6 (term\$4 word\$4) near5 (probabilit\$4 confidn\$4))) and ((rat\$4 ratio\$4) near5 (word\$4 term\$4) near5 (use\$4 usag\$4 histor\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:25
S62	4	(((speech\$4 voic\$3) near5 recogni\$5) same ((overall totoal combin\$4 joint\$4) near6 (term\$4 word\$4) near5 (probabilit\$4 confidn\$4))) and ((rat\$4 ratio\$4) near5 (use\$4 usag\$4 histor\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:18

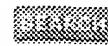
S63	2	"5572423".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:23
S64	24	((speech\$4 voic\$3) near5 recogni\$5) same ((overall totoal combin\$4 joint\$4) near6 (term\$4 word\$4) near5 (probabilit\$4 confidn\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:24
S65	1400	((speech\$4 voic\$3) near5 recogni\$5) and ((term\$4 word\$4) near5 (probabilit\$4 confidn\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:24
S66	77	(((speech\$4 voic\$3) near5 recogni\$5) and ((term\$4 word\$4) near5 (probabilit\$4 confidn\$4))) and ((rat\$4 ratio\$4) near5 (word\$4 term\$4) near5 (use\$4 usag\$4 histor\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/07 13:25
S67	642666	data near5 (input\$4 typ\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/09 15:23
S68	45876	(speech\$3 voic\$4) near5 recogni\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/10 14:05
S69	81	((speech\$3 voic\$4) near5 recogni\$5) and (confiden\$4 near5 term\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/10 14:07
S70	48	(((speech\$3 voic\$4) near5 recogni\$5) and (confiden\$4 near5 term\$)) and (confiden\$4 near5 term\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
S71	48	((speech\$3 voic\$4) near5 recogni\$5) and (confiden\$4 near5 term\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/10 14:07
S72	11	(((speech\$3 voic\$4) near5 recogni\$5) and (confiden\$4 near5 term\$3)) and (probabilit\$4) near5 us\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/10 14:10

S73	11	((speech\$3 voic\$4) near5 recogni\$5) and (confiden\$4 near5 term\$3)) and (probabilit\$4) near5 us\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/10 14:10
S74	38	(US-6377949-\$ or US-6233560-\$ or US-6070139-\$ or US-5946658-\$ or US-5899972-\$ or US-5842168-\$ or US-6208971-\$ or US-6161083-\$ or US-6144938-\$ or US-6138092-\$ or US-5960388-\$ or US-5950157-\$ or US-5917891-\$ or US-5884261-\$ or US-5852801-\$ or US-5751904-\$ or US-5745649-\$ or US-5692097-\$ or US-5680636-\$ or US-5625833-\$ or US-5642368-\$ or US-5537488-\$ or US-5454063-\$ or US-5499288-\$ or US-5365574-\$ or US-5231670-\$).did. or (US-4241329-\$ or US-4405838-\$ or US-4523331-\$ or US-5842163-\$ or US-5710866-\$ or US-5638425-\$ or US-5835635-\$ or US-5802205-\$ or US-5023912-\$ or US-5649153-\$ or US-5572423-\$ or US-4599692-\$).did.	USPAT	OR	OFF	2004/08/10 14:22
S75	18	((US-6377949-\$ or US-6233560-\$ or US-6070139-\$ or US-5946658-\$ or US-5899972-\$ or US-5842168-\$ or US-6208971-\$ or US-6161083-\$ or US-6144938-\$ or US-6138092-\$ or US-5960388-\$ or US-5950157-\$ or US-5917891-\$ or US-5884261-\$ or US-5852801-\$ or US-5751904-\$ or US-5745649-\$ or US-5692097-\$ or US-5680636-\$ or US-5625833-\$ or US-5642368-\$ or US-5537488-\$ or US-5454063-\$ or US-5499288-\$ or US-5365574-\$ or US-5231670-\$).did. or (US-4241329-\$ or US-4405838-\$ or US-4523331-\$ or US-5842163-\$ or US-5710866-\$ or US-5638425-\$ or US-5835635-\$ or US-5802205-\$ or US-5023912-\$ or US-5649153-\$ or US-5572423-\$ or US-4599692-\$).did.) and (probabilit\$ near5 (us\$3 time\$3))	USPAT	OR	OFF	2004/08/10 14:24
S76	6402	(speech\$4 spoken\$4 voic\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 12:48

S77	387	(speech\$4 spoken\$4 voic\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4) near5 (valu\$4 number\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 10:27
S78	7	S77 and (pre\$4 near5 (stor\$4 sav\$4) near5 use\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:57
S79	0	S77 and (overall near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 10:59
S80	2	S77 and (overall near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:01
S81	4	S77 and (total near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:18
S82	59	S76 and ((overall total) near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 12:55
S83	4029	S76 and ((comapr\$4 combin\$4) near5 (register\$4 sav\$4 stor\$4 use\$3) nea5 (term\$3 word\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:04
S84	59	S82 and S83	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:03
S85	36	S76 and ((comapr\$4 combin\$4) near5 (register\$4 sav\$4 stor\$4 use\$3) near5 (term\$3 word\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
S86	3	S85 and ((overall total) near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:06

S87	59	S76 and ((overall total) near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:15
S88	2	S87 and (input\$4 near5 confiden\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:16
S89	6	S77 and ((overall total) near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:24
S90	36	(US-4599692-\$ or US-5023912-\$ or US-5231670-\$ or US-5365574-\$ or US-5454063-\$ or US-5499288-\$ or US-5537488-\$ or US-5625833-\$ or US-5638425-\$ or US-5642368-\$ or US-5649153-\$ or US-5680636-\$ or US-5692097-\$ or US-5710866-\$ or US-5745649-\$ or US-5751904-\$ or US-5802205-\$ or US-5835635-\$ or US-5842163-\$ or US-5842168-\$ or US-5852801-\$ or US-5884261-\$ or US-5899972-\$ or US-5917891-\$ or US-5946658-\$ or US-5950157-\$).did. or (US-5960388-\$ or US-6070139-\$ or US-6138092-\$ or US-6144938-\$ or US-6161083-\$ or US-6208971-\$ or US-6233560-\$ or US-6377949-\$ or US-5794204-\$ or US-6480819-\$).did.	USPAT	OR	ON	2005/11/22 14:57
S91	4	S90 and ((overall total) near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 11:24
S92	6497	(speech\$4 spoken\$4 voic\$4 speak\$4) near5 input\$4 near9 (confiden\$4 recogniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:57
S93	59	S92 and ((overall total) near5 probabilit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 12:56

S94	1	S93 and (confiden\$4 near4 (valu\$4 number\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 12:49
S95	33	S92 and (histor\$4 near5 search\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 13:01
S96	178	S92 and (histor\$4 near5 stor\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 13:02
S97	6	S92 and (histor\$4 near5 stor\$4) same confiden\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:56
S98	0	incorrect44 near4 (input\$4 typ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 13:08
S99	5108	incorrect\$4 near4 (input\$4 typ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 13:08
S100	9762	S99 adn automatic\$4 near5 correct44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 13:08
S101	255	S99 and automatic\$4 near5 correct\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 14:55
S102	7	S101 and confidenc\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/25 13:09


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
[Search: The ACM Digital Library](#) [The Guide](#)
[+voice +input +overall +probability +confidence +value +rec...](#)

[THE ACM DIGITAL LIBRARY](#)
[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

[voice](#) [input](#) [overall](#) [probability](#) [confidence](#) [value](#) [recently used](#) [term](#) [certain period](#)

Found 39 of 166,953

 Sort results by: [relevance](#)
 [Save results to a Binder](#)
[Try an Advanced Search](#)

 Display results: [expanded form](#)
 [Search Tips](#)
[Try this search in The ACM Guide](#)
 [Open results in a new window](#)

Results 1 - 20 of 39

Result page: [1](#) [2](#) [next](#)

Relevance scale:



1 Special issue: AI in engineering

D. Sriram, R. Joobbani

 April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

 Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.



2 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

 February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

 Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...



3 Comparing the QoS of Internet audio mechanisms via formal methods

Alessandro Aldini, Marco Bernardo, Roberto Gorrieri, Marco Roccati

 January 2001 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 11 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(256.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We compute and compare the quality of service (QoS) of three soft real-time applications for audio transmissions over the Internet. The main metric we want to capture is the average packet audio playout delay vs. the packet loss rate as perceived by users. Other metrics we take into account are the packet loss rate vs. the receiving buffer capacity, the lateness of discarded packets vs. average packet audio playout delay, and the waiting time in the receiver buffer for the played packets vs ...

Keywords: Internet audio mechanisms, case studies, discrete event simulation, quality of service, software tools, stochastic process algebras

4 Special issue: Game-playing programs: theory and practice 

 M. A. Brumer

April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available:  pdf(9.23 MB) Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

5 Network dimensioning and performance of multiservice, multirate loss networks with dynamic routing 

D. Medhi, Sujit Guptan

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

Publisher: IEEE Press

Full text available:  pdf(257.65 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: admission control, dynamic routing, multicommodity network flow optimization model, multirate loss networks, network dimensioning, network performance

6 Face recognition: A literature survey 

 W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available:  pdf(4.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

7 Software safety: why, what, and how 

 Nancy G. Leveson

June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.18 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new

software research area, emphasis is placed on delineating the outstanding issues and research topics.

8 On the self-similar nature of Ethernet traffic (extended version)



Will E. Leland, Murad S. Taqqu, Walter Willinger, Daniel V. Wilson

February 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 1

Publisher: IEEE Press

Full text available:  [pdf\(1.92 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#).

9 Technical reports



 SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#).

10 Analysis methodology: Panel discussion on current issues in input modeling: panel on current issues in simulation input modeling



Russell R. Barton, Stephen E. Chick, Russell C. H. Cheng, Shane G. Henderson, Averill M. Law, Bruce W. Schmeiser, Lawrence M. Leemis, Lee W. Schruben, James R. Wilson

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(319.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#).

In recent years, substantial progress has been made in the development of powerful new approaches to modeling and generation of the stochastic input processes driving simulation models. In this panel discussion, we examine some of the central issues and unresolved problems associated with each of these approaches to simulation input modeling.

11 A structural view of the Cedar programming environment



 Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#).

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

12 On the self-similar nature of Ethernet traffic



 Will E. Leland, Murad S. Taqqu, Walter Willinger, Daniel V. Wilson

October 1993 **ACM SIGCOMM Computer Communication Review, Conference proceedings on Communications architectures, protocols and**

applications SIGCOMM '93, Volume 23 Issue 4**Publisher:** ACM PressFull text available:  pdf(1.46 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We demonstrate that Ethernet local area network (LAN) traffic is statistically *self-similar*, that none of the commonly used traffic models is able to capture this fractal behavior, and that such behavior has serious implications for the design, control, and analysis of high-speed, cell-based networks. Intuitively, the critical characteristic of this self-similar traffic is that there is no natural length of a "burst": at every time scale ranging from a few milliseconds to minutes and hour ...

13 A unified approach for improving QoS and provider revenue in 3G mobile networks 

Christoph Lindemann, Marco Lohmann, Axel Thümler

June 2003 **Mobile Networks and Applications**, Volume 8 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  pdf(407.92 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we introduce a unified approach for the adaptive control of 3G mobile networks in order to improve both quality of service (QoS) for mobile subscribers and to increase revenue for service providers. The introduced approach constantly monitors QoS measures as packet loss probability and the current number of active mobile users during operation of the network. Based on the values of the QoS measures just observed, the system parameters of the admission controller and packet schedul ...

Keywords: admission control in mobile system, performance evaluation of next generation mobile systems, pricing and revenue optimization, quality of service in mobile systems

14 Network decomposition: theory and practice 

Do Young Eun, Ness B. Shroff

June 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 3**Publisher:** ACM PressFull text available:  pdf(817.00 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We show that significant simplicities can be obtained for the analysis of a network when link capacities are large enough to carry many flows. We develop a network decomposition approach in which network analysis can be greatly simplified. We prove that the queue length at the downstream queue converges to that of a single queue obtained by removing the upstream queue, as the capacity and the number of flows at the upstream queue increase. The precise modes of convergence vary depending on the t ...

Keywords: aggregation, decomposition, many-sources-asymptotic, network, overflow probability, performance analysis

15 On the self-similar nature of Ethernet traffic 

Will E. Leland, Walter Willinger, Murad S. Taqqu, Daniel V. Wilson

January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.37 MB)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We demonstrate that Ethernet local area network (LAN) traffic is statistically *self-similar*, that none of the commonly used traffic models is able to capture this fractal behavior, and

that such behavior has serious implications for the design, control, and analysis of high-speed, cell-based networks. Intuitively, the critical characteristic of this self-similar traffic is that there is no natural length of a "burst": at every time scale ranging from a few milliseconds to minutes and hour ...

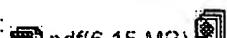
16 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available:



[pdf\(6.15 MB\)](#)

Additional Information: [full citation](#)

[Publisher Site](#)



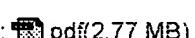
17 Human-Computer Interaction in the Control of Dynamic Systems

William B. Rouse

January 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available:



[pdf\(2.77 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Modes of human-computer interaction in the control of dynamic systems are discussed, and the problem of allocating tasks between human and computer considered. Models of human performance in a variety of tasks associated with the control of dynamic systems are reviewed. These models are evaluated in the context of a design example involving human-computer interaction in aircraft operations. Other examples include power plants, chemical plants, and ships.

Keywords: aircraft, control, dynamic systems, human-computer interaction, mathematical models, system design, task analysis

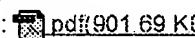
18 A measurement-analytic approach for QoS estimation in a network based on the dominant time scale

Do Young Eun, Ness B. Shroff

April 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2

Publisher: IEEE Press

Full text available:



[pdf\(901.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



In this paper, we describe a measurement-analytic approach for estimating the overflow probability, an important measure of the quality of service (QoS), at a given multiplexing point in the network. A multiplexing point in the network could be a multiplexer or an output port of a switch or router where resources such as bandwidth and buffers are shared. Our approach impinges on using the notion of the *dominant time scale* (DTS), which corresponds to the most probable time scale over which ...

Keywords: Gaussian processes, dominant time scale (DTS), measurements, overflow probability, stopping criterion

19 The winter simulation conference: perspectives of the founding fathers

Michel Araten, Harold G. Hixson, Austin C. Hoggatt, Philip J. Kiviat, Michael F. Morris, Arnold Ockene, Julian Reitman, Joseph M. Sussman, James R. Wilson



December 1992 **Proceedings of the 24th conference on Winter simulation**

Publisher: ACM Press

Full text available:  [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 [Automatically extracting highlights for TV Baseball programs](#) 

 [Yong Rui, Anoop Gupta, Alex Acero](#)

October 2000 Proceedings of the eighth ACM international conference on Multimedia

Publisher: ACM Press

Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In today's fast-paced world, while the number of channels of television programming available is increasing rapidly, the time available to watch them remains the same or is decreasing. Users desire the capability to watch the programs time-shifted (on-demand) and/or to watch just the highlights to save time. In this paper we explore how to provide for the latter capability, that is the ability to extract highlights automatically, so that viewing time can be reduced.

We focus on the sp ...

Keywords: audio, baseball, highlights, summarization, television, video

Results 1 - 20 of 39

Result page: [1](#) [2](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright ?2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
Search: The ACM Digital Library The Guide

 +voice +input +overall +probability +confidence +value +rece

THE ACM DIGITAL LIBRARY
[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

[voice](#) [input](#) [overall](#) [probability](#) [confidence](#) [value](#) [recently used](#) [term](#) [certain period](#)

Found 39 of 39

Sort results
by
 Save results to a Binder

[Try an Advanced Search](#)
Display
results
 [Search Tips](#)
[Try this search in The ACM Guide](#)
 Open results in a new window

Results 21 - 39 of 39

Result page: [previous](#) [1](#) [2](#)

Relevance scale


21 [Managing battery lifetime with energy-aware adaptation](#)

Jason Flinn, M. Satyanarayanan

 May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first describe a novel profiling-based approach for accurately measuring application and system energy consumption. We then show how applications can dynamically modify their behavior to conserve energy. We extend the Linux operating system to yield battery lifetimes of user-specified duration. By monitoring energy supply and demand and ...

Keywords: Power management, adaptation

22 [Establishing and maintaining long-term human-computer relationships](#)

Timothy W. Bickmore, Rosalind W. Picard

 June 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This research investigates the meaning of "human-computer relationship" and presents techniques for constructing, maintaining, and evaluating such relationships, based on research in social psychology, sociolinguistics, communication and other social sciences. Contexts in which relationships are particularly important are described, together with specific benefits (like trust) and task outcomes (like improved learning) known to be associated with relationship quality. We especially c ...

Keywords: Human-computer interaction, embodied conversational agent, relational agent, social interface

23 [Statistical multiplexing and buffer sharing in multimedia high-speed networks: a frequency-domain perspective](#)

Wing-cheong Lau, San-qi Li

June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 3

Publisher: IEEE Press

Full text available:  [pdf\(526.43 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ATM, BISDN, network source allocation, source characterization, traffic, traffic management

24 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion 

 detection system evaluations as performed by Lincoln Laboratory

November 2000 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 3 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(156.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number of issues associated with its design and execution that remain unsettled. Some methodologies used in the evaluation are questionable and may have biased its results. One problem is that the evaluators have published relatively little concer ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

25 Emotion: Emotional advantage for adaptability and autonomy 

 Eugénio Oliveira, Luís Sarmento

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Publisher: ACM Press

Full text available:  [pdf\(219.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the last two decades, researchers have collected a decisive amount of experimental evidence about the fundamental role of Emotion on cognitive processing. Emotional phenomena have been correlated with effective decision-making processes, memory, learning and other high-level cognitive capabilities and skills (e.g. risk assessment). In this paper we will describe an ongoing work that aims to design new Agent Architectures influenced by what has been learned in psychology and neurosciences ...

Keywords: adaptability, cognition, emotion, simulation

26 Selection criteria for expert system shells: a socio-technical framework 

 Anthony C. Stylianou, Gregory R. Madey, Robert D. Smith

October 1992 **Communications of the ACM**, Volume 35 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(20.76 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: expert system development tools, expert system shells, software evaluation criteria, software selection

- 27 [The measurement of information systems effectiveness: evaluating a measuring instrument](#)

 Judy E. Scott

February 1995 **ACM SIGMIS Database**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Information system effectiveness is an important phenomenon for both researchers and practitioners. Despite widespread interest, and the importance of the uses, there have been no efforts to validate *Computerworld's* Premier 100 rankings of information system effectiveness. This paper uses structural equation modeling in an attempt to validate the measuring instrument used to derive the *Computerworld* rankings. Alternative models for the measuring instrument are proposed. Using a refl ...

- 28 [Modeling multiple IP traffic streams with rate limits](#)

Daniel P. Heyman, David Lucantoni

December 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 6

Publisher: IEEE Press

Full text available:  [pdf\(854.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We start with the premise, and provide evidence that it is valid, that a Markov-modulated Poisson process (MMPP) is a good model for Internet traffic at the packet/byte level. We present an algorithm to estimate the parameters and size of a discrete MMPP (D-MMPP) from a data trace. This algorithm requires only two passes through the data. In tandem-network queueing models, the input to a downstream queue is the output from an upstream queue, so the arrival rate is limited by the rate of the upst ...

Keywords: Markov-modulated Poisson process (MMPP), hidden Markov model, matrix-analytic queueing model, super-position, tandem queues

- 29 [An open architecture for next-generation telecommunication services](#)

 Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(237.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

- 30

[The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve](#)

 **Uncertainty**

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(3.83 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

31 On achieving fairness and efficiency in high-speed shared medium access 

R. Srinivasan, Arun K. Soman

February 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 1

Publisher: IEEE Press

Full text available:  [pdf\(629.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Channel access has been an active research area for the past two decades. Several protocols have been proposed in literature to efficiently utilize the channel bandwidth. Some of the recently proposed protocols achieve a near-ideal channel utilization. However, the efficiency in utilization comes at the expense of certain unfairness in delay characteristics. In this paper, a new channel-access protocol, called access mechanism for efficient sharing in broadcast medium networks (AMES-BM), is deve ...

Keywords: broadcast networks, collision resolution, multiple access, tree splitting

32 The language of privacy: Learning from video media space analysis and design 

 Michael Boyle, Saul Greenberg

June 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Video media spaces are an excellent crucible for the study of privacy. Their design affords opportunities for misuse, prompts ethical questions, and engenders grave concerns from both users and nonusers. Despite considerable discussion of the privacy problems uncovered in prior work, questions remain as to how to design a privacy-preserving video media space and how to evaluate its effect on privacy. The problem is more deeply rooted than this, however. Privacy is an enormous concept from which ...

Keywords: Human-computer interaction, autonomy, computer-supported cooperative work (CSCW), confidentiality, environmental psychology, privacy, social interaction, solitude, user interface design, video media spaces

33 Probing the black box: User-level internet path diagnosis 

 Ratul Mahajan, Neil Spring, David Wetherall, Thomas Anderson

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available:  [pdf\(403.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Diagnosing faults in the Internet is arduous and time-consuming, in part because the network is composed of diverse components spread across many administrative domains. We consider an extreme form of this problem: can end users, with no special privileges, identify and pinpoint faults inside the network that degrade the performance of their applications? To answer this question, we present both an architecture for user-level

Internet path diagnosis and a practical tool to diagnose paths in the ...

Keywords: measurement tools, path diagnosis

34 Xunet 2: lessons from an early wide-area ATM testbed

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert C. Restrick

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Publisher: IEEE Press

Full text available:  [pdf\(231.69 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



Keywords: asynchronous transfer mode, available bit rate, constant bit rate, variable bit rate

35 Linguistic resource creation for research and technology development: A recent experiment

Stephanie Strassel, Mike Maxwell, Christopher Cieri

June 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(186.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Advances in statistical machine learning encourage language-independent approaches to linguistic technology development. Experiments in "porting" technologies to handle new natural languages have revealed a great potential for multilingual computing, but also a frustrating lack of linguistic resources for most languages. Recent efforts to address the lack of available resources have focused either on intensive resource development for a small number of languages or development of technologies for ...

Keywords: Cebuano, Hindi, Machine translation, crosslanguage, information extraction, information retrieval, language parsing and understanding, linguistic resources, machine translation, summarization, text analysis, translingual information access technology

36 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [index terms](#)



37 MedSpeak: report creation with continuous speech recognition

Jennifer Lai, John Vergo

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: continuous speech recognition, dictation, navigation, radiology, speech interface design

38 Biometric identification



 Anil Jain, Lin Hong, Sharath Pankanti

 February 2000 **Communications of the ACM**, Volume 43 Issue 2

Publisher: ACM Press

Full text available:  pdf(677.32 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

 html(37.23 KB)

39 Risks to the public in computer systems



 Peter G. Neumann

 April 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.41 MB)

Additional Information: [full citation](#), [index terms](#)

 html

Results 21 - 39 of 39

Result page: [previous](#) [1](#) [2](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright ?2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

Search Results[BROWSE](#)[SEARCH](#)[IEEE Xplore GUIDE](#) [e-mail](#)

Results for "(voice input <in>metadata)"

Your search matched **10** of **394950** documents.A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance in Descending** order.**» Search Options**[View Session History](#)[Modify Search](#)[New Search](#) [»](#)**» Key****IEEE JNL** IEEE Journal or Magazine[Select](#) [Article Information](#)**IEEE JNL** IEE Journal or Magazine**IEEE CNF** IEEE Conference Proceeding**1. Practical applications of voice input to machines**

Martin, T.B.;

Proceedings of the IEEE

Volume 64, Issue 4, April 1976 Page(s):487 - 501

[AbstractPlus](#) | Full Text: [PDF\(3820 KB\)](#) [IEEE JNL](#)**IEEE STO** IEEE Standard**2. From kana to kanji: word processing in Japan**

Mori, K.; Kawada, T.;

Spectrum, IEEE

Volume 27, Issue 8, Aug. 1990 Page(s):46 - 48

Digital Object Identifier 10.1109/6.58434

[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) [IEEE JNL](#)**3. A voice input word processor system**

Goh Wee Leng; Mital, D.P.;

Consumer Electronics, IEEE Transactions on

Volume 38, Issue 4, Nov. 1992 Page(s):755 - 761

Digital Object Identifier 10.1109/30.179962

[AbstractPlus](#) | Full Text: [PDF\(384 KB\)](#) [IEEE JNL](#)**4. Helping the Web help the disabled**

Lazzaro, J.J.;

Spectrum, IEEE

Volume 36, Issue 3, March 1999 Page(s):54 - 59

Digital Object Identifier 10.1109/6.750401

[AbstractPlus](#) | Full Text: [PDF\(816 KB\)](#) [IEEE JNL](#)**5. Math and science software [technology 1999 analysis and forecast]**

Kornbluh, K.;

Spectrum, IEEE

Volume 36, Issue 1, Jan. 1999 Page(s):88 - 91

Digital Object Identifier 10.1109/6.738333

[AbstractPlus](#) | Full Text: [PDF\(1412 KB\)](#) [IEEE JNL](#)**6. Digital speech networks**

Gold, B.;

Proceedings of the IEEE

Volume 65, Issue 12, Dec. 1977 Page(s):1636 - 1658

[AbstractPlus](#) | Full Text: [PDF\(2606 KB\)](#) [IEEE JNL](#)

- 7. LSI implementation of a pattern matching algorithm for speech recognition**
Kitazume, Y.; Ohira, E.; Takeyuki Endo;
Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Sig
IEEE Transactions on
Volume 33, Issue 1, Feb 1985 Page(s):1 - 4
[AbstractPlus](#) | Full Text: [PDF\(456 KB\)](#) [IEEE JNL](#)

- 8. State-of-the-art in speaker recognition**
Faundez-Zanuy, M.; Monte-Moreno, E.;
Aerospace and Electronic Systems Magazine, IEEE
Volume 20, Issue 5, March 2005 Page(s):7 - 12
Digital Object Identifier 10.1109/MAES.2005.1432568
[AbstractPlus](#) | Full Text: [PDF\(2075 KB\)](#) [IEEE JNL](#)

- 9. Golden Mandarin (I)-A real-time Mandarin speech dictation machine for C
with very large vocabulary**
Lee, L.S.; Tseng, C.Y.; Gu, H.Y.; Liu, F.H.; Chang, C.H.; Lin, Y.H.; Lee, Y.; Tu,
Chen, C.H.;
Speech and Audio Processing, IEEE Transactions on
Volume 1, Issue 2, April 1993 Page(s):158 - 179
Digital Object Identifier 10.1109/89.222876
[AbstractPlus](#) | Full Text: [PDF\(2480 KB\)](#) [IEEE JNL](#)

- 10. The no free lunch theorem and the human-machine interface**
Yu-Chi Ho;
Control Systems Magazine, IEEE
Volume 19, Issue 3, June 1999 Page(s):8 - 10
Digital Object Identifier 10.1109/37.768535
[AbstractPlus](#) | Full Text: [PDF\(392 KB\)](#) [IEEE JNL](#)



[Help](#) [Contact Us](#) [Privacy & :](#)

© Copyright 2005 IEEE ..

Indexed by
Inspec


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
[Search: The ACM Digital Library](#) [The Guide](#)


[THE ACM DIGITAL LIBRARY](#)
[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

[voice input](#) and [multiple terms recently used](#) [immediate](#) [certain period](#) [time](#)

Found 120,987 of 166,953

Sort results by

 [Save results to a Binder](#)
 [Try an Advanced Search](#)

Display results

 [Search Tips](#)
 [Try this search in The ACM Guide](#)
 [Open results in a new window](#)

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

 [Relevance scale](#)

1 [System architectures for computer music](#)

John W. Gordon

 June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Computer music is a relatively new field. While a large proportion of the public is aware of computer music in one form or another, there seems to be a need for a better understanding of its capabilities and limitations in terms of synthesis, performance, and recording hardware. This article addresses that need by surveying and discussing the architecture of existing computer music systems. System requirements vary according to what the system will be used for. Common uses for co ...

2 [Special issue on knowledge representation](#)

Ronald J. Brachman, Brian C. Smith

 February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)


In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

3 [Special issue: AI in engineering](#)

D. Sriram, R. Joobhani

 April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)


The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

4 Information systems outsourcing: a survey and analysis of the literature

 Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

5 Technique for automatically correcting words in text

 Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(6.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

6 High-speed local area networks and their performance: a survey

 Bandula W. Abeysundara, Ahmed E. Kamal
June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Publisher: ACM Press

Full text available:  pdf(3.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

At high data transmission rates, the packet transmission time of a local area network (LAN) could become comparable to or less than the medium propagation delay. The performance of many LAN schemes degrades rapidly when the packet transmission time becomes small comparative to the medium propagation delay. This paper introduces LANs and discusses the performance degradation of LANs at high speeds. It surveys recently proposed LAN schemes designed to operate at high data rates, including the ...

Keywords: access schemes, computer networks, data communication, medium access protocols, optical fiber networks

◆ [Pen computing: a technology overview and a vision](#)

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

8 [Launching the new era](#)

◆ [Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick](#)

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(3.45 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

9 [Special issue: Game-playing programs: theory and practice](#)

◆ [M. A. Bramer](#)

April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available:  [pdf\(9.23 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

10 [Human-computer interface development: concepts and systems for its management](#)

◆ [H. Rex Hartson, Deborah Hix](#)

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

11 [The FINITE STRING Newsletter: Abstracts of current literature](#)

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available:   [pdf\(6.15 MB\)](#)  Additional Information: [full citation](#)
[Publisher Site](#)

◆ [Interactive Editing Systems: Part II](#)

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(9.17 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 [Programming languages for computer music synthesis, performance, and composition](#)

Gareth Loy, Curtis Abbott

June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(3.57 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of formal, descriptive, and procedural notations has become a practical concern within the field of music now that computers are being applied to musical tasks. Music combines the real-time demands of performance with the intellectual demands of highly developed symbolic systems that are quite different from natural language. The richness and variety of these demands makes the programming language paradigm a natural one in the musical application of computers. This paradigm ...

14 [Conference abstracts](#)

◆ [January 1977 Proceedings of the 5th annual ACM computer science conference](#)

Publisher: ACM Press

Full text available:  [pdf\(3.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

15 [Special section: Special issue on AI and Database research](#)

◆ [Jonathan J. King](#)

◆ [October 1983 ACM SIGART Bulletin, Issue 86](#)

Publisher: ACM Press

Full text available:  [pdf\(3.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

16 [Streaming: A novel multiple access scheme in wireless multimedia networks with multi-packet reception](#)

◆ [Hui Chen, Fei Yu, Henry C. B. Chan, Victor C. M. Leung](#)

◆ [October 2005 Proceedings of the 1st ACM workshop on Wireless multimedia networking and performance modeling WMuNeP '05](#)

Publisher: ACM Press

Full text available:  [pdf\(355.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent advances in signal processing techniques have enabled wireless networks to have multi-packet reception (MPR) capability at the physical layer, where it is possible to receive one or more packets when concurrent transmissions occur. In this paper, we

propose the novel multi-reservation multiple access (MRMA) scheme for future wireless multimedia networks based on such an MPR channel model, which fully exploit the channel's MPR capacity while fulfilling the quality of service (QoS) requirem ...

Keywords: QoS, multimedia, multiple access, wireless communications

17 Office Information Systems and Computer Science

Clarence A. Ellis, Gary J. Nutt

January 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.87 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Draft report of the Federal Internetworking Requirements Panel, and selected

responses

Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(4.15 MB\)](#) Additional Information: [full citation](#), [index terms](#)

19 Nomadic radio: speech and audio interaction for contextual messaging in nomadic environments

Nitin Sawhney, Chris Schmandt

September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(648.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile workers need seamless access to communication and information services while on the move. However, current solutions overwhelm users with intrusive interfaces and ambiguous notifications. This article discusses the interaction techniques developed for Nomadic Radio, a wearable computing platform for managing voice and text-based messages in a nomadic environment. Nomadic Radio employs an auditory user interface, which synchronizes speech recognition, speech synthesis, nonspeech audio ...

Keywords: adaptive interfaces, contextual interfaces, interruptions, nonspeech audio, notifications, passive awareness, spatial listening, speech interaction, wearable computing

20 Adaptive, unsupervised stream mining

Spiros Papadimitriou, Anthony Brockwell, Christos Faloutsos

September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(856.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Sensor devices and embedded processors are becoming widespread, especially in measurement/monitoring applications. Their limited resources (CPU, memory and/or communication bandwidth, and power) pose some interesting challenges. We need concise, expressive models to represent the important features of the data and that lend themselves to efficient estimation. In particular, under these severe constraints, we want

models and estimation methods that (a) require little memory and a single pass over ...

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright ?2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
 The ACM Digital Library The Guide

 voice input <and> multiple terms recently used immediate
[THE ACM DIGITAL LIBRARY](#)
[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

voice input and multiple terms recently used immediate certain period time

Found 120,987 of 166,953

Sort results by

 Save results to a Binder

 Try an Advanced Search

Display results

 Search Tips

 Try this search in [The ACM Guide](#)
 Open results in a new window

Results 21 - 40 of 200

Result page: [previous](#)[1](#)[2](#)[3](#)[4](#)[5](#)[6](#)[7](#)[8](#)[9](#)[10](#)[next](#)

Best 200 shown

Relevance scale

21 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3**Publisher:** ACM PressFull text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)**22 Information retrieval on the web**

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2**Publisher:** ACM PressFull text available: [pdf\(213.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

23 Computer Communication Networks: Approaches, Objectives, and Performance Considerations

Stephen R. Kimbleton, G. Michael Schneider

September 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 3**Publisher:** ACM PressFull text available: [pdf\(3.99 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**24 The winter simulation conference: celebrating twenty-five years of progress**

Robert C. Crain, Joseph M. Sussman, Thomas J. Schriber, James O. Henriksen, Stephen D.

Roberts

December 1992 **Proceedings of the 24th conference on Winter simulation**

Publisher: ACM Press

Full text available:  pdf(3.37 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

25 A slotted CDMA protocol with BER scheduling for wireless multimedia networks 

Ian F. Akyildiz, David A. Levine, Inwhee Joe

April 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 2

Publisher: IEEE Press

Full text available:  pdf(222.12 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: BER scheduling, code division multiple access, multimedia traffic, power control, priority, wireless networks

26 The development of the SIMULA languages 

Kristen Nygaard, Ole-Johan Dahl

January 1978 **ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages HOPL-1**, Volume 13 Issue 8

Publisher: ACM Press

Full text available:  pdf(2.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The organizers of this conference have told us that we should write at least 25 pages of manuscript, but that we may produce as many pages more as we wanted. Perhaps they did not envisage the possible consequences, but we have taken their words at face value. This paper has implied a vast amount of work and archeological activities. We are grateful to SIGPLAN for defining a task to which resources had to be allocated by our institutions and which forced us to write down an account ...

27 Level II technical support in a distributed computing environment 

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  pdf(5.73 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

28 From methods to design: Voice-mail diary studies for naturalistic data capture under mobile conditions 

Leysia Palen, Marilyn Salzman

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(224.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile technology requires new methods for studying its use under realistic conditions "in the field." Reflexively, mobile technology also creates new opportunities for data collection while participants are remotely located. We report on our experiences with a variation on the paper-based diary study technique, which we extend by using voice-mail paired with mobile and landline telephony to more easily collect data in natural situations. We discuss

lessons learned from experiences with voice-ma ...

Keywords: CSCW, HCI, diary study, mobile computing, mobility, naturalistic study, phones, usability, voice-mail

29 Generating summaries of multiple news articles

 Kathleen McKeown, Dragomir R. Radev
July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available:  pdf(1.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: natural language generation, natural language summarization, summarization of multiple texts

30 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

31 A framework for choosing a database query language

 Matthias Jarke, Yannis Vassiliou
September 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 3
Publisher: ACM Press

Full text available:  pdf(2.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a systematic approach to matching categories of query language interfaces with the requirements of certain user types. The method is based on a trend model of query language development on the dimensions of functional capabilities and usability. From the trend model the following are derived: a classification scheme for query languages, a criterion hierarchy for query language evaluation, a comprehensive classification scheme of query language users and their requirement ...

32 Systems, interactions, and macrotheory

 Philip Barnard, Jon May, David Duke, David Duce
June 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 2
Publisher: ACM Press

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A significant proportion of early HCI research was guided by one very clear vision: that the existing theory base in psychology and cognitive science could be developed to yield engineering tools for use in the interdisciplinary context of HCI design. While interface

technologies and heuristic methods for behavioral evaluation have rapidly advanced in both capability and breadth of application, progress toward deeper theory has been modest, and some now believe it to be unnecessary. A case ...

Keywords: cognitive models, computing system models, models of interaction

33 Pitfalls and safeguards in real-time digital systems with emphasis on programming

W. A. Hosier

March 1987 **Proceedings of the 9th international conference on Software Engineering**

Publisher: IEEE Computer Society Press

Full text available:  [pdf \(1.98 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Real-time digital systems are largely a technical innovation of the past decade, but they appear destined to become more wide spread in the future. They monitor or control a real physical environment, such as an air-traffic situation, as distinguished from simulating that environment on an arbitrary time scale. The complexity and rapid variation of such an environment necessitates use of a fast and versatile central-control device, a role well suited to digital computers. The usual system w ...

34 Measuring system normality

 Mark Burgess, Hårek Haugerud, Sigmund Straumsnes, Trond Reitan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  [pdf \(794.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A comparative analysis of transaction time-series is made, for light to moderately loaded hosts, motivated by the problem of anomaly detection in computers. Criteria for measuring the statistical state of hosts are examined. Applying a scaling transformation to the measured data, it is found that the distribution of fluctuations about the mean is closely approximated by a steady-state, maximum-entropy distribution, modulated by a periodic variation. The shape of the distribution, under these con ...

Keywords: Anomaly detection, statistical mechanics

35 Software environments workshop report

 William E. Riddle, Lloyd G. Williams

January 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 1

Publisher: ACM Press

Full text available:  [pdf \(2.88 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A recent workshop identified a variety of issues fundamental to advancing the state-of-the-art in software environments. In addition, activities were specified to address these issues and provide incremental improvement in the near and medium term. Even though the sets of issues and activities are incomplete, they are reported here to seed the community's thinking about what is needed to advance the state-of-the-art for software environments and assist in establishing long-range goals, identifyi ...

36 The future of programming

 Anthony I. Wasserman, Steven Gutz

March 1982 **Communications of the ACM**, Volume 25 Issue 3

Publisher: ACM Press

Full text available:

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

 pdf(1.29 MB)

terms

The nature of programming is changing. These changes will accelerate as improved software development practices and more sophisticated development tools and environments are produced. This paper surveys the most likely changes in the programming task and in the nature of software over the short term, the medium term, and the long term. In the short term, the focus is on gains in programmer productivity through improved tools and integrated development environments. In the medium ...

Keywords: integrated development environments, personal development systems, prototyping, software components, software development methodology

37 [Going wireless: behavior & practice of new mobile phone users](#) 

 Leysia Palen, Marilyn Salzman, Ed Youngs

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(221.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We report on the results of a study in which 19 new mobile phone users were closely tracked for the first six weeks after service acquisition. Results show that new users tend to rapidly modify their perceptions of social appropriateness around mobile phone use, that actual nature of use frequently differs from what users initially predict, and that comprehension of service-oriented technologies can be problematic. We describe instances and features of mobile telephony practice. When in use ...

Keywords: cellular, communicative practice, digital telephony, mobile, qualitative research, wireless communications

38 [A general framework for prefetch scheduling in linked data structures and its application to multi-chain prefetching](#) 

 Seungryul Choi, Nicholas Kohout, Sumit Pamnani, Dongkeun Kim, Donald Yeung

May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pointer-chasing applications tend to traverse composite data structures consisting of multiple independent pointer chains. While the traversal of any single pointer chain leads to the serialization of memory operations, the traversal of independent pointer chains provides a source of memory parallelism. This article investigates exploiting such *interchain memory parallelism* for the purpose of memory latency tolerance, using a technique called *multi-chain prefetching*. Previous work ...

Keywords: Data prefetching, memory parallelism, pointer-chasing code

39 [Designing Leisure Applications for the Mundane Car-Commute](#) 

Karl-Petter Dkesson, Andreas Nilsson

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 3

Publisher: Springer-Verlag

Full text available:  pdf(229.75 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Commuting by car from home to work can be very time consuming. We have conducted a study to explore what people are doing, and want to do, while commuting. People use

their time in the car on a wide variety of activities with great innovation. There was no unanimous activity that everyone wanted, rather a wide variety of activities were requested. Three different categories of activity were identified which we refer to as mundane, vocational and traffic related. To demonstrate a possible IT serv ...

40 [On the self-similar nature of Ethernet traffic \(extended version\)](#) 

Will E. Leland, Murad S. Taqqu, Walter Willinger, Daniel V. Wilson

February 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 1

Publisher: IEEE Press

Full text available:  [pdf\(1.92 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Results 21 - 40 of 200

Result page: [previous](#) [1](#) **2** [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright ?2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)